

WWRA OPS COMMITTEE ARCHIVE 20 (19 September 2006 – 6 October 2008)**CURRENT PRIORITY ACTION ITEM – ACTION ITEM--INDEFINITE HOLD – COMPLETED ITEM**

2011	Task	Order Status	Op Status	Work	Equipment	REMARKS	OPS Comm	Target Due Date
9/19/06	06219	-	Yes	Alternate VHF repeater needs circuit to operate the PA 100 amplifier when it is keyed up. 6/15/07 – This circuit was briefly discussed and Jim, N6ECV said he would build this circuit. Jim and George could do this on a separate trip.	Alternate VHF	Note: This circuit needs to be built.	J	TBD N6ECV dropped off Ops Committee
4/12/07	07229	-	No	4/12/07 – Programming of “please identify” announcement on UHF repeater is required. This assignment was volunteered by Jim, N6ECV to accomplish.	UHF Repeater	Programming of controller.	J	TBD N6ECV dropped off Ops Committee
3/22/05	05196	-	No	Resurrected the VHF Microphone encoder project. Bill, N7YT redesigned and George, N7YT drew up the MicE cable design. 4/15/05 – Design passed to Mike, W7MKY for evaluation and incorporation of IC's to replace current relays. 5/3/05 George, N7GME took Mic E out of commission and brought down original cable harness for Bill, N7YT to repair. 5/30/05 Bill checked out and made hand-written schematic and George reinstalled on hill. Needs testing. 05/12/06 Mike, W7MKY volunteered to build new Mic E harness. Shipped existing harness to Mike to use as pattern. 5/24/06 – Lunch meeting with Bill-N7YT, Mike-W7MKY and George-N7GME met to discuss the proper approach to build a new functioning MicE harness. Many options discussed and it was finally decided that Mike would build TWO harnesses. The first one would be with relays that we know work and a second one with IC's if Mike could find the proper type and size to do the job. We will then take the two harnesses to the hill and test them both. 9/15/06 – Mike, W7MKY got a job and too busy to finish project at this time so shipped it back to George, N7GME. Will work on this after weather vox is completed. 12/14/06 – Commenced working on MicE cable. George, N7GME. 12/20/06 – Installed MicE cable for VHF operations only & commenced test period.	VHF Microphone Encoder	Decision to build a second MicE harness with IC's if practical. 3/3/07 – Jim, N6ECV suggested that relays would be better since IC's may not work in high RF environment. 6/15/07 – Need to buy socket plug-in relays. Jim, N6ECV will research this type of relays. 11/1/07 Microphone Encoder project cancelled by Bill, N7YT and George, N7GME.	B G M E	Bench 4/15/05 4.5 Hours 2 Hill trips 5/3 & 5/30/05 1.5 Hours Meeting 5/24/06 2.5 Hours 6/1/06 Bench Work 2.5 Hours 12/20/06 Hill trip install .5 hours

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3/17/06	06205	Ordered 3/17 Received 5/5/06	-	<ol style="list-style-type: none"> 3/17/05 Ops Committee decided to order a variable power supply (VPS). The VPS provides approximately 28 VDC to the VHF transmitter final stage. That stage is what provides drive to the PA-100. 5/20/06 - Installed VPS on hill with no appreciable change in power because PA 100 was not working. 5/20/06 - Brought PA 100 down from hill to check out. See work on PA 100 Unit B completed. 6/15/07 – Ops Committee meeting with Jim, N6ECV, Bill, N7YT and George, N7GME. Discussed at some length the gains and issues associated with driving up the power to 80 watts on VHF repeater. We have to closely monitor the power output of the UHF repeater since the VPS brings up the output of both repeaters. 6/23/07 – Too busy checking out wiring issues so did not attempt to increase power. Will attempt at later date. 4/17/2011 - CANCELLED because with the procurement of a new backup system with new VHF repeater it was decided to stay with the current AC power with DC back up power that is built into both VHF repeaters. 	Variable Power Supply (VPS)	<p>Note: Currently the VHF repeater is coordinated at 100 Watts but is operating at 40W.</p> <p>5/20/07 SEE NOTES on PA-100 units A and B installations.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>VHF Unit A 40w - 3.9a Unit B 30w - 2.5a</p> <p>UHF Unit A No reading Unit B 58w – 2.5a 5/20/2007</p> </div>	B G J	<p>5/20/06 8 hours</p> <p>5/20/07 4 hours</p> <p>CANCELLED 4/17/2011</p> <p>N6ECV dropped off Ops Committees</p>
10/5/07	07235	Ordered 10/17/07 Received 11/12/07	No	<p>10/5/07 - This project has been ongoing in one form or another for over a year. Two black boxes including a rack mounted computer with DOS capability will be installed on the hill.</p> <p>10/11/07 – Negotiations with distributor will allow the WWRA to do a feasibility test to see if the operations committee can install and successfully operate.</p> <p>10/12/07 – Downloaded and printed out TxID and fingerprinting technical manuals.</p> <p>11/12/07 – Distributor allowed us to keep the equipment until 31 Dec before payment.</p> <p>11/27/07 – Gathering equipment necessary to set up this more advanced fingerprinting operation. Fixing up 486 computers to operate gear.</p> <p>1/21/08 – Commenced programming with DOS software.</p> <p>3/27/08 – Motorola analyzer being used to calibrate TxID and receiver.</p> <p>1/29/11 – Fingerprinting capability has been working and so was briefed to general membership.</p>	Fingerprinting Project	10/5/07 – Constant kerchunking of the repeater has been an issue that past and current ops committees have been plaque with over the years. Securing the repeater has been an option seldom used. This unfortunately denies access to all users. In an effort to positively ID violating stations the operations committee has pursued "fingerprinting" with some success and is now in the process of acquiring more sophisticated equipment to combat this and other issues. This additional technology will allow manages of the repeater system to positively ID all repeater users.	B G	Ongoing

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7/3/08	08249	Ordered 7/3/08	Yes	7/3/08 – One pin on Molex connector on PA-100 broke so we ordered a replacement and some spares.	PA-100 Molex Connector		G	Next Hill Trip
7/3/08	08252		Yes	Adjust audio level on VHF RECEIVE Port 5 audio level.	Port 5 Audio Level		B G	TBD
10/6/08	08260		NO	<p>10/6/08 – Only static was being transmitted by UHF repeater. Upon testing remotely it appears that the transmitter is working fine but the receive is not. Turned OFF until hill trip can be accomplished. At this point the coax within the cabinet is suspected.</p> <p>10/7/08 – Bill, N7YT theorized that it could be the Audio Delay Module (ADM), which we originally installed for MicE ops could be the culprit causing this distortion in the signal being repeated.</p> <p>10/7/08 – George, N7GME went to the hill and disconnected the RCA audio plug from the controller and turned the repeater on. It worked fine. This particular problem with the ADM has been an intermittent issue over the years.</p>	UHF Repeater	<p>NOTE: This latest problem with the ADM affecting a repeaters performance has probably struck a death knell for continuing to maintain MicE capability. It will be discussed and the WWRA BoD will make a final decision.</p> <p>11/1/08 Decision to discontinue APRS MicE was made final by Bill, N7YT and George, N7GME.</p>	B G	<p>10/7/08 Hill trip 2 Hours COMPLETED</p>